

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Motion to award Bid No. 13163 for PRV Replacement 2013, Phase 1, to Bonner Brothers Construction, Inc., as lowest responsible and responsive bidder in the amount of \$475,016.48 (CIP Plan No. W-67).

FISCAL IMPACT

Awarding this bid commits the City to a contract in the amount of \$475,016.48 for water system rehabilitation within the Bellevue service area. The low bid was 22.5% below the Engineer's Estimate. This contract is fully funded through the Utility's Pressure Reducing Valve (PRV) Rehabilitation Program (CIP Plan No. W-67). Sufficient funds exist to fund this contract.

STAFF CONTACT

Bob Mulvey, Deputy Director, 452-6012
Regan Sidie, Engineering Design Manager, 452-6857
Utilities Department

POLICY CONSIDERATION

Utilities Department policies:

- To invest resources as necessary to construct, maintain and renew water system infrastructure and equipment so that Utility customers are provided with consistent, reliable service.

Utilities Department practice:

- Rehabilitation or replacement of old and deteriorating pressure reducing valves (PRVs) throughout the water service area. CIP Plan No. W-67 has been designated to do this.

City Contracting policies:

- BCC 4.28 provides for the fair and equitable treatment in the purchasing process. Because the amount of the contract exceeds \$50,000, Council approval is required.

BACKGROUND

The City maintains numerous vaults containing pressure reducing valves (PRVs) that regulate water pressure as water flows between different pressure zones. Many of these facilities are over 25 years old and contain older pipe, valves, and other deteriorating components. Reliability has become a concern, and repair parts can be difficult or impossible to find. The size and constricted access to many of these older vaults makes increased maintenance and repair activities difficult and raises maintenance and personnel safety concerns. This project is part of an ongoing program that rehabilitates and replaces existing water system vaults containing PRVs. This program reduces the likelihood of PRV failures, thereby increasing the reliability of water supply.

The project sites recommended for rehabilitation/replacement within Phase 1 of the 2013 maintenance program are located in the Tam O'Shanter, Forest Glen, Spiritridge and Horizon Crest areas within the Bellevue service area.

Bids were opened on September 5, 2013 and are as follows:

Bonner Brothers Construction	\$475,016.48
3 Kings Environmental, Inc.	480,870.35
Road Construction Northwest, Inc.	524,625.45
Sanders General Construction, LLC	542,712.94
Laser Underground & Earthworks, Inc.	553,456.80
Kar-Vel Construction	629,690.70
Westwater Construction	632,253.00
Titan Earthwork	642,217.50
Earthwork Enterprises	706,628.69
Award Construction, Inc.	750,028.40
Gary Harper Construction, Inc.	816,413.39

Engineer's Estimate \$613,000

To the best of staff's knowledge, all factors that normally contribute to construction expense have been accounted for in the plans and in the Engineer's Estimate. It is our experience that construction projects of this type usually result in some amount of field changes. Such claims are rigorously reviewed and only those that are clearly necessary to accomplish the intent of the contract, but have somehow not been provided for, will be paid.

EFFECTIVE DATE

If adopted, the award of this bid will become effective immediately.

OPTIONS

1. Award Bid No. 13163 for PRV Replacement 2013, Phase 1, to Bonner Brothers Construction, Inc., as lowest responsible and responsive bidder in the amount of \$475,016.48 (CIP Plan No. W-67).
2. Award contract to another bidder, if low bidder is rejected.
3. Reject all bids and re-bid at a later date.

RECOMMENDATION

Adopt Option No. 1, which awards Bid No. 13163 for PRV Replacement 2013, Phase 1, to Bonner Brothers Construction, Inc., as lowest responsible and responsive bidder in the amount of \$475,016.48 (CIP Plan No. W-67).

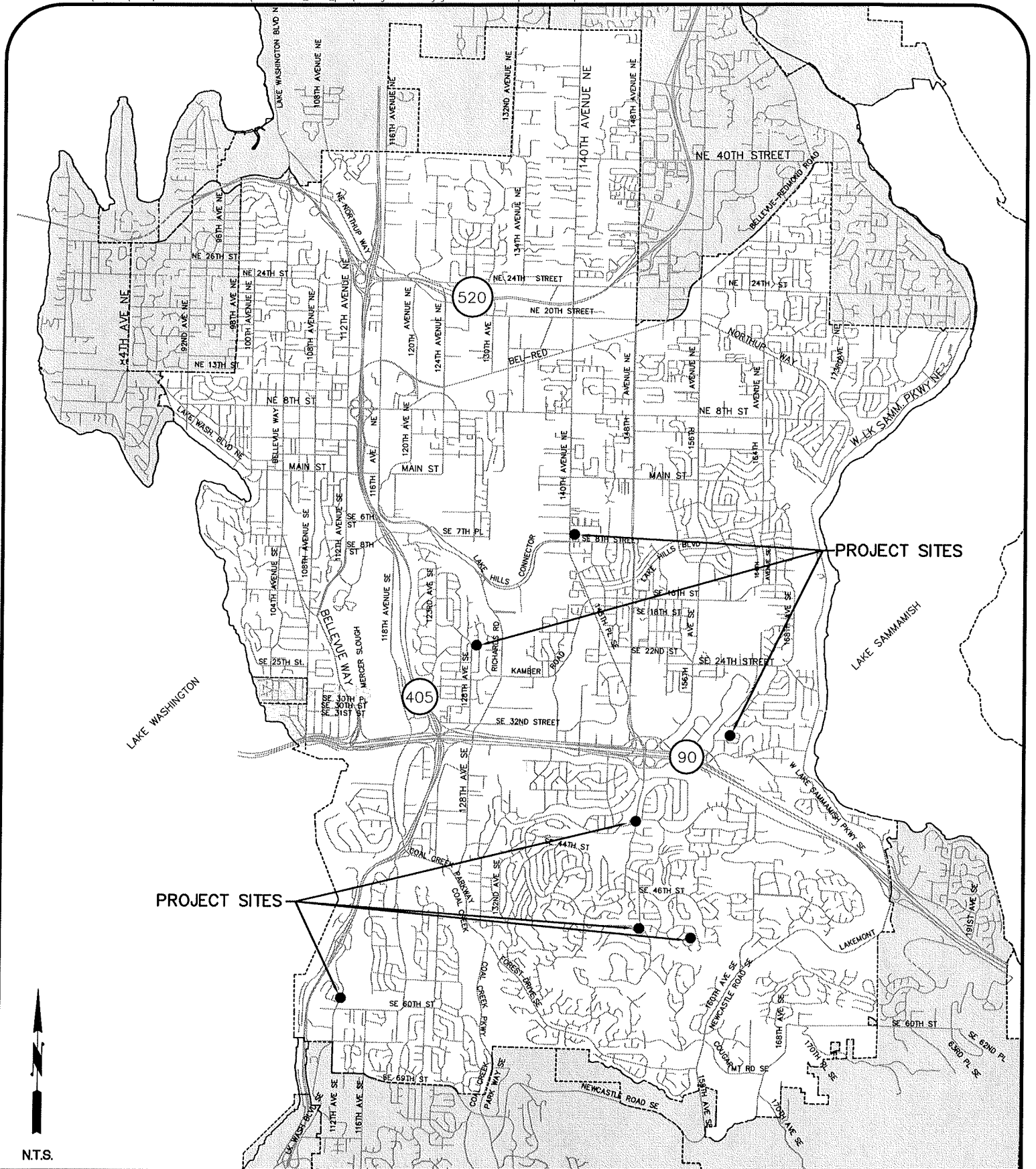
This contractor has satisfactorily performed similar projects for the City in the past.

MOTION

Move to award Bid No. 13163 for PRV Replacement 2013, Phase 1, to Bonner Brothers Construction, Inc., as lowest responsible and responsive bidder in the amount of \$475,016.48 (CIP Plan No. W-67).

ATTACHMENTS

Vicinity Map
CIP Project Description



VICINITY MAP

2013 PRV REPLACEMENT PHASE 1
C.I.P. W-67



W-67 Pressure Reducing Valve (PRV) Rehabilitation

Category: **Water**
 Department: **Utilities**

Status: **Ongoing**
 Location: **Various locations throughout Water Utility's service area**

Programmed Funding

Programmed Funding	Appropriated To Date	FY 2013 Budget	FY 2014 Budget	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget	FY 2018 Budget	FY 2019 Budget
9,990,254	6,499,800	458,450	471,721	484,884	497,941	511,862	525,702	539,894

Description and Scope

This ongoing program consists of the rehabilitation or replacement of old and deteriorating pressure reducing valves (PRVs) throughout the water service area. The number of pressure reducing valves that are rehabilitated varies from year to year based on the annual program budget and the rehabilitation costs, but over the long term should average about 3 PRVs per year. Replacement criteria include service requirements, safety, maintenance history, age, and availability of replacement parts.

PROJECT NEED: System Renewal and Replacement

Rationale

Bellevue's water system includes 142 PRVs that supply water throughout Bellevue. During normal operation they sustain the water pressure to homes and businesses in service areas of similar elevation, known as 'water pressure zones'. When they sense a drop in system pressure, these valves open wide to provide additional water to fight fires or in response to other supply deficiencies.

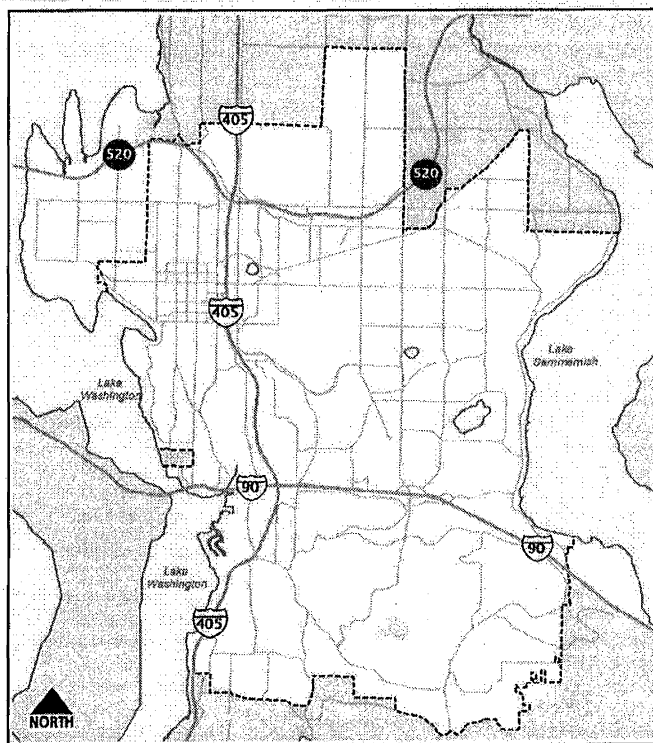
PRVs require rehabilitation or replacement every 35-45 years, as parts become obsolete and mechanical wear leads to unreliable performance. Bellevue currently has approximately thirty critical PRVs over 30 years old, at significant risk of failing. Many of the oldest PRVs have small vaults with difficult access. These vaults make the increased maintenance and repair work problematic, are too small to accommodate newer valves and fittings, and in some cases raise safety concerns for personnel. The program budget funds replacement of about 3 PRVs/yr; the oldest PRV will be no more than 45 years old at this replacement rate.

Environmental Impacts

The specific environmental impacts or the State Environmental Protection Act (SEPA) requirements will be determined for each specific project. Projects are generally confined to a small area within an existing utility vault, or may involve replacement of the vault, and are generally exempt.

Operating Budget Impacts

This project will have no impact on operating revenues (and/or) expenditures, since it replaces existing facilities.

Project Map**Schedule of Activities**

Project Activities	From - To	Amount
Project Costs	1991 - 2019	9,990,254

Total Budgetary Cost Estimate: 9,990,254

Means of Financing

Funding Source	Amount
Miscellaneous Revenue	15,000
Utility Rates/Fees	9,975,254

Total Programmed Funding: 9,990,254

Future Funding Requirements: 0

Comments

This project is located throughout the service area.